BExIS 2.6.0
Installation Manual

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Acknowledgement

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Content

1. BExIS Package 3
2. Additional Software / Prerequisites 3
   2.1. .NET Framework 4.0 3
   2.2. ASP.NET MVC 3 3
   2.3. Database System 4
   2.3.1. PostgreSQL 4
      2.3.1.1. Download PostgreSQL 4
      2.3.1.2. Installation of PostgreSQL 4
   2.3.2. DB2 Express-C 5
      2.3.2.1. Download DB2 Express-C 5
      2.3.2.2. Installation of DB2 Express-C 5
      2.3.2.3. Install IBM Data Studio 8
3. Setup Internet Information Service (IIS) 11
   3.1. Active IIS7 11
   3.2. Register .Net Framework 4.0 in IIS 11
4. Deploy BExIS web application 12
   4.1. Configure server components 12
      4.1.1. Create application user 12
      4.1.2. Configure IIS 12
      4.1.3. Create Website 12
      4.1.4. Create empty database 13
      4.1.4.1. Create empty database on PostgreSQL 13
      4.1.4.2. Create empty database on DB2 14
   4.2. Install BExIS package 16
      4.2.1. Deploy Website (new installation) 16
      4.2.2. Deploy Website (patch existing installation) 17
      4.2.3. Start Website 17
5. Errors 17
   ERROR [08004][IBM] SQL30061 17
   ERROR [08001][IBM] SQL30081n 17
   ERROR HTTP-ERROR 403.14 17
   ERROR HTTP- ERROR 404.2 17
   ERROR SQL1159 18

1. BExIS Package

- First download the package BExIS_260_full.zip from: http://fusion.cs.uni-jena.de/bexis/download/
- Unzip BExIS 260_full.zip
- Usage of contained files and folders is described in section 4.

2. Additional Software / Prerequisites

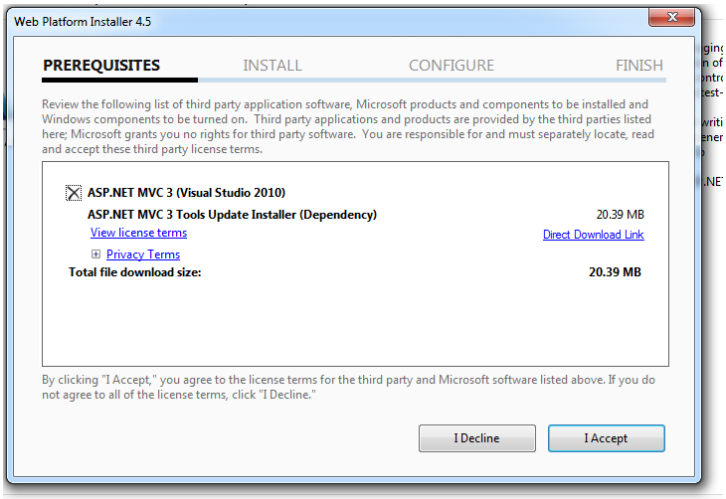
The following software is needed to run the BExIS web application. If they are installed on your computer already please jump to section 3. If not, please download Prerequisites.zip from: http://fusion.cs.uni-jena.de/bexis/download/current-release and unzip the file.

2.1. .NET Framework 4.0

- Open folder Prerequisites\.NET 4 and start "**dotNetFx40_Full_x86_x64.exe"** as admin
- Or download it here: Download .net Framework 4.0
- follow the steps in the installation window

2.2. ASP.NET MVC 3

- Open folder Prerequisites\ASP.NetMVC3 and start "**MVC3.exe**" as admin
- Or download it here: Download ASP.NET MVC 3
- follow the steps in the installation window


Web Platform Installer 4.5
PREREQUISITES
INSTALL
CONFIGURE
FINISH
Review the following list of third party application software, Microsoft products and components to be installed and Windows components to be turned on. Third party applications and products are provided by the third parties listed here; Microsoft grants you no rights for third party software. You are responsible for and must separately locate, read and accept these third party license terms.
ASP.NET MVC 3 (Visual Studio 2010)
ASP.NET MVC 3 Tools Update Installer (Dependency)
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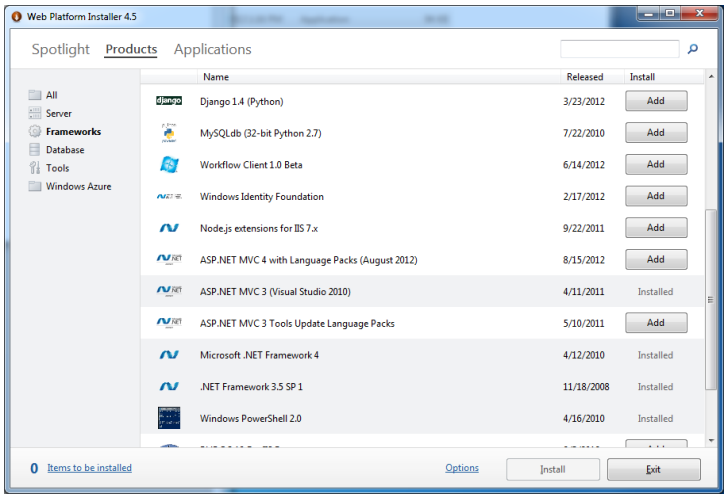
1 First step shows the prerequisites of mvc3

- After the Prerequisites window another window with some installation options will appear
- Go to **Products**
- Select **Frameworks**
- Here you need to find **MVC3** and **.NET 4**
- If this not installed click on the add button and start the installation



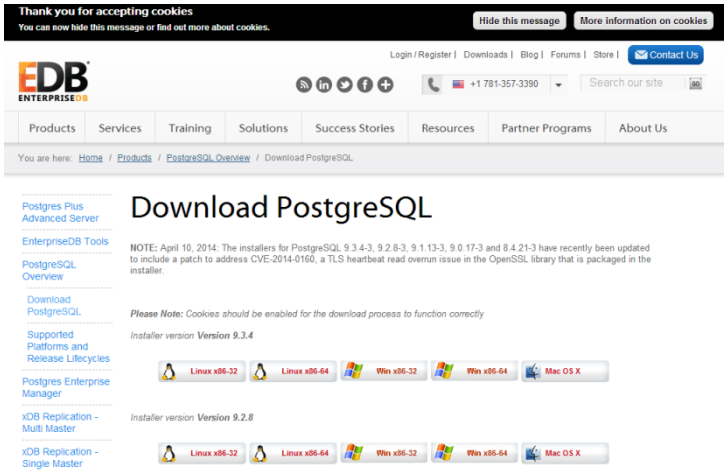
2.3. Database System

BExIS 2 needs a database management system to be available on your server. You are free to choose between PostgreSQL and IBM DB2 Express-C. If not available already please follow **one** of the installation instructions below.

2.3.1. PostgreSQL

2.3.1.1. Download PostgreSQL

Depending on your hardware and your installed operating system select either the 32bit or 64bit version from the following link: http://www.enterprisedb.com/products-services-training/pgdownload#windows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You can now hide this message or find out more about cookies.
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Login / Register | Downloads | Blog | Forums | Store | Contact Us
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Resources
Partner Programs
About Us
You are here: Home / Products / PostgreSQL Overview / Download PostgreSQL
Postgres Plus Advanced Server
EnterpriseDB Tools
PostgreSQL Overview
Download PostgreSQL
Supported Platforms and Release Lifecycles
Postgres Enterprise Manager
xDB Replication - Multi Master
xDB Replication - Single Master
Download PostgreSQL
NOTE: April 10, 2014: The installers for PostgreSQL 9.3.4-3, 9.2.8-3, 9.1.13-3, 9.0.17-3 and 8.4.21-3 have recently been updated to include a patch to address CVE-2014-0160, a TLS heartbeat read overrun issue in the OpenSSL library that is packaged in the installer.
Please Note: Cookies should be enabled for the download process to function correctly
Installer version Version 9.3.4
Linux x86-32
Linux x86-64
Win x86-32
Win x86-64
Mac OS X
Installer version Version 9.2.8
Linux x86-32
Linux x86-64
Win x86-32
Win x86-64
Mac OS X

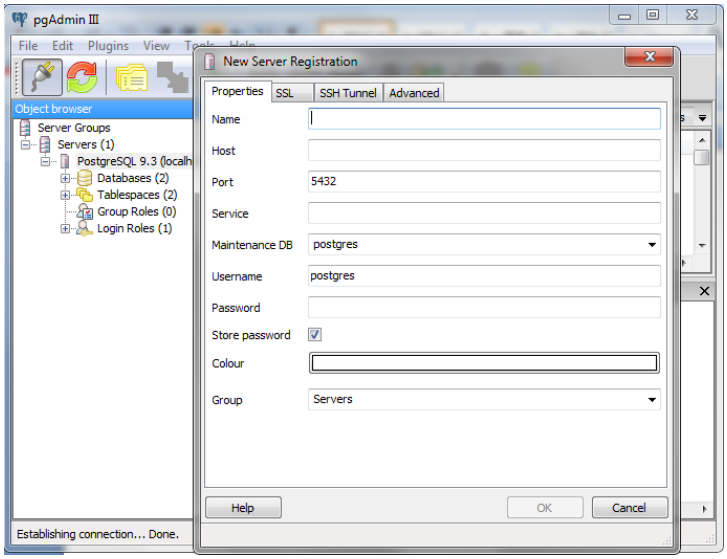
2.3.1.2. Installation of PostgreSQL

The installation of PostgreSQL is easy. It is enough to run the Installer and follow the steps. During installation, when asked, please

- enter "postgres" as user
- enter “1” as password
- enter “5432” as port number.

Launch Stack Builder that is asked in the last step is not recommended.

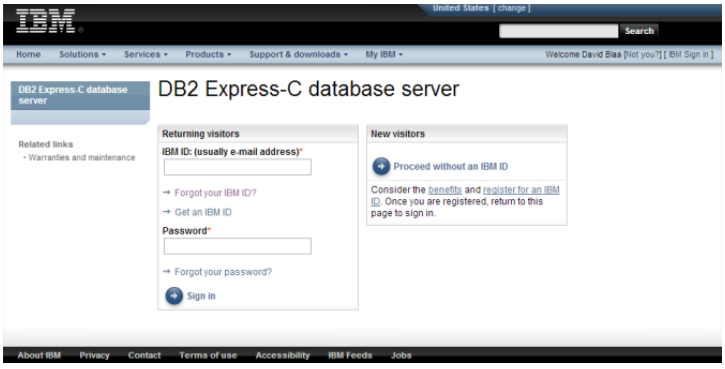
When the installation is finished, run PgAdmin and add a connection to the server that you want to work on it.



2.3.2. DB2 Express-C

2.3.2.1. Download DB2 Express-C

Depending on your hardware and your installed OS select either the 32bit or 64bit version from the following link: [Download DB2 Express-C]

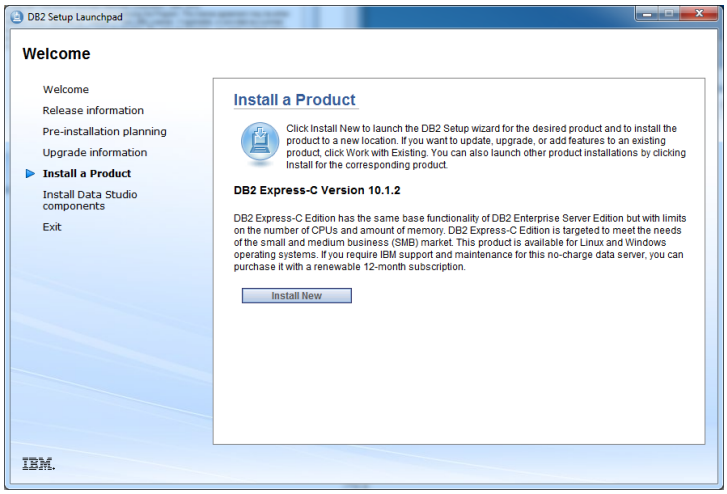

IBM
Search
Home Solutions Services Products Support & downloads My IBM
DB2 Express-C database server
DB2 Express-C database server
Related links
Warranties and maintenance
Returning visitors
IBM ID: (usually e-mail address)*
Forgot your IBM ID?
Get an IBM ID
Password*
Forgot your password?
Sign in
New visitors
Proceed without an IBM ID
Consider the benefits and register for an IBM ID. Once you are registered, return to this page to sign in.
About IBM Privacy Contact Terms of use Accessibility IBM Feeds Jobs

Log in with the IBM user account. If you have no IBM user account, you need to create one.

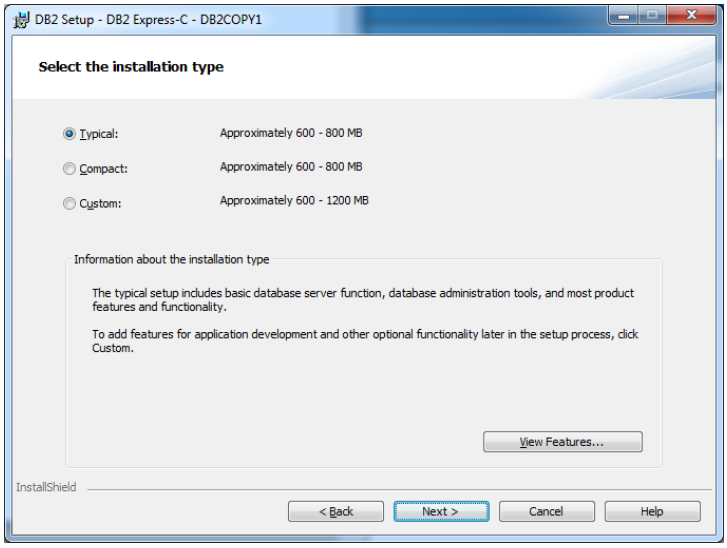
2Download DB2 Express-C

2.3.2.2. Installation of DB2 Express-C

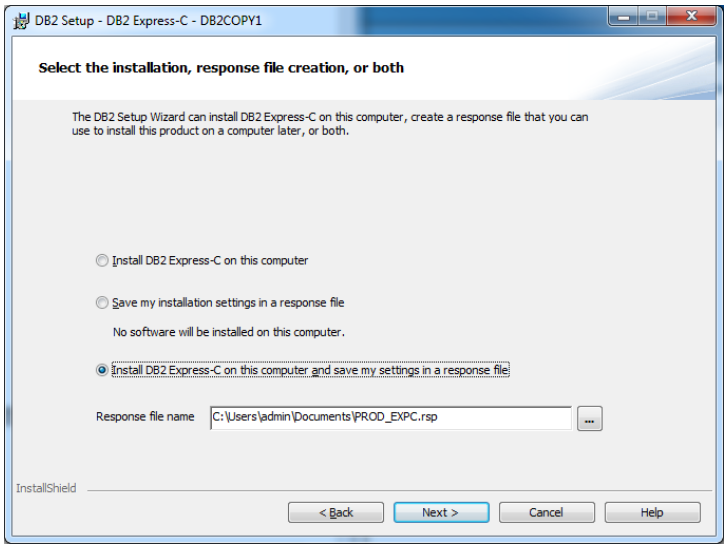
- Execute the downloaded installer file (*.exe).


DB2 Setup Launchpad
Welcome
Welcome
Release information
Pre-installation planning
Upgrade information
Install a Product
Install Data Studio components
Exit
Install a Product
Click Install New to launch the DB2 Setup wizard for the desired product and to install the product to a new location. If you want to update, upgrade, or add features to an existing product, click Work with Existing. You can also launch other product installations by clicking Install for the corresponding product.
DB2 Express-C Version 10.1.2
DB2 Express-C Edition has the same base functionality of DB2 Enterprise Server Edition but with limits on the number of CPUs and amount of memory. DB2 Express-C Edition is targeted to meet the needs of the small and medium business (SMB) market. This product is available for Linux and Windows operating systems. If you require IBM support and maintenance for this no-charge data server, you can purchase it with a renewable 12-month subscription.
Install New
IBM

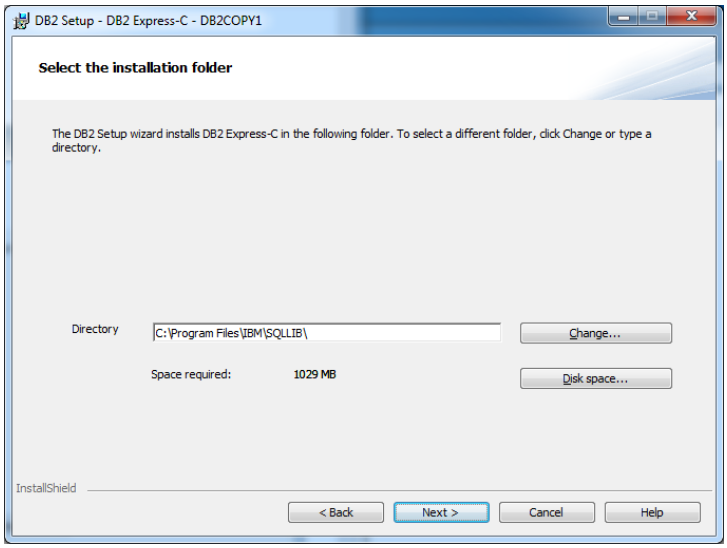
- Choose the installation type – “typical” is appropriate in most cases


DB2 Setup - DB2 Express-C - DB2COPY1
Select the installation type
Typical:
Approximately 600 - 800 MB
Compact:
Approximately 600 - 800 MB
Custom:
Approximately 600 - 1200 MB
Information about the installation type
The typical setup includes basic database server function, database administration tools, and most product features and functionality.
To add features for application development and other optional functionality later in the setup process, click Custom.
View Features...
InstallShield
< Back
Next >
Cancel
Help

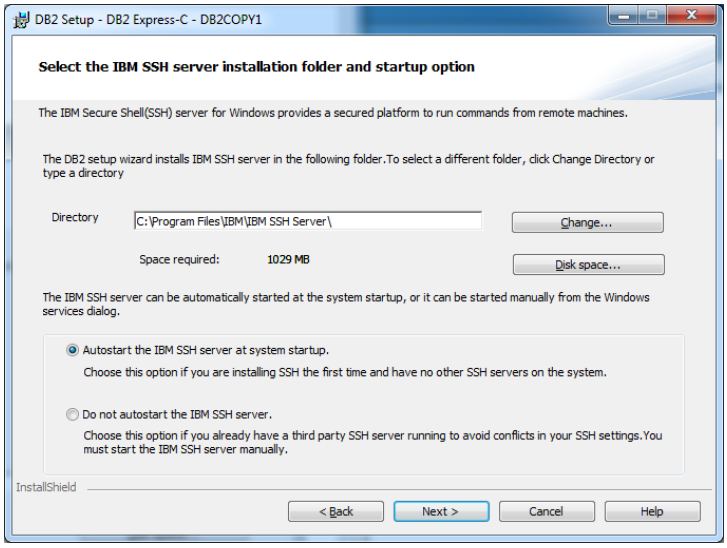
- Select Installation or response file or both


DB2 Setup - DB2 Express-C - DB2COPY1
Select the installation, response file creation, or both
The DB2 Setup Wizard can install DB2 Express-C on this computer, create a response file that you can use to install this product on a computer later, or both.
Install DB2 Express-C on this computer
Save my installation settings in a response file
No software will be installed on this computer.
Install DB2 Express-C on this computer and save my settings in a response file
Response file name
C:\Users\admin\Documents\PROD_EXPC.rsp
InstallShield
< Back
Next >
Cancel
Help

- Select the installation folder (use the default path)

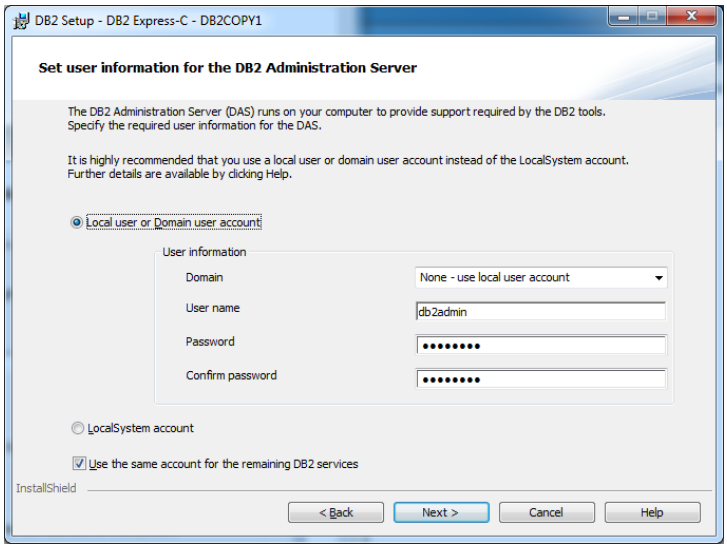


- Use default

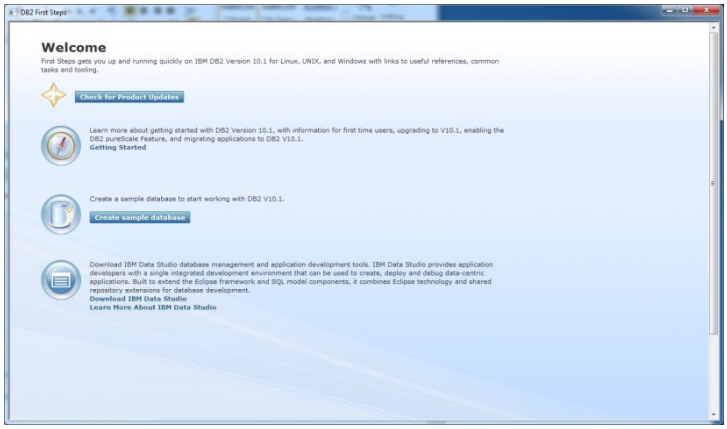

DB2 Setup - DB2 Express-C - DB2COPY1
Select the IBM SSH server installation folder and startup option
The IBM Secure Shell(SSH) server for Windows provides a secured platform to run commands from remote machines.
The DB2 setup wizard installs IBM SSH server in the following folder.To select a different folder, click Change Directory or type a directory
Directory
C:\Program Files\IBM\IBM SSH Server\
Change...
Space required:
1029 MB
Disk space...
The IBM SSH server can be automatically started at the system startup, or it can be started manually from the Windows services dialog.
Autostart the IBM SSH server at system startup.
Choose this option if you are installing SSH the first time and have no other SSH servers on the system.
Do not autostart the IBM SSH server.
Choose this option if you already have a third party SSH server running to avoid conflicts in your SSH settings.You must start the IBM SSH server manually.
InstallShield
< Back
Next >
Cancel
Help

- Define the db2admin password

  Please make sure you recall the password later on!

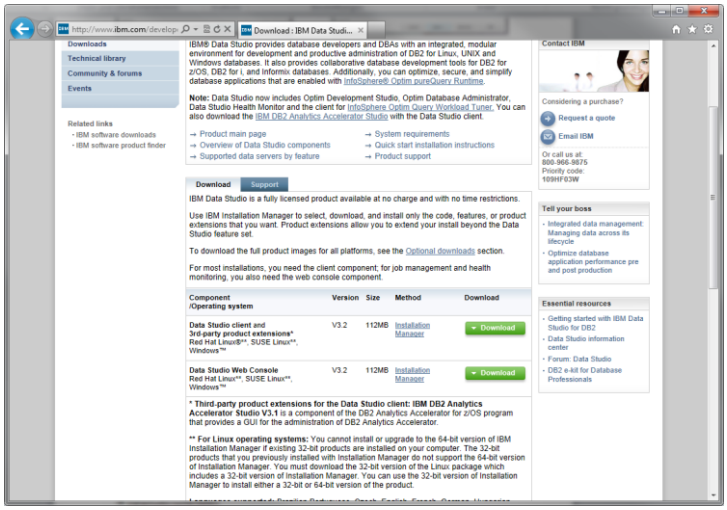

DB2 Setup - DB2 Express-C - DB2COPY1
Set user information for the DB2 Administration Server
The DB2 Administration Server (DAS) runs on your computer to provide support required by the DB2 tools.
Specify the required user information for the DAS.
It is highly recommended that you use a local user or domain user account instead of the LocalSystem account.
Further details are available by clicking Help.
Local user or Domain user account
User information
Domain
None - use local user account
User name
db2admin
Password
Confirm password
LocalSystem account
Use the same account for the remaining DB2 services
InstallShield
< Back
Next >
Cancel
Help

- After the installation you should see the this screen



2.3.2.3. Install IBM Data Studio

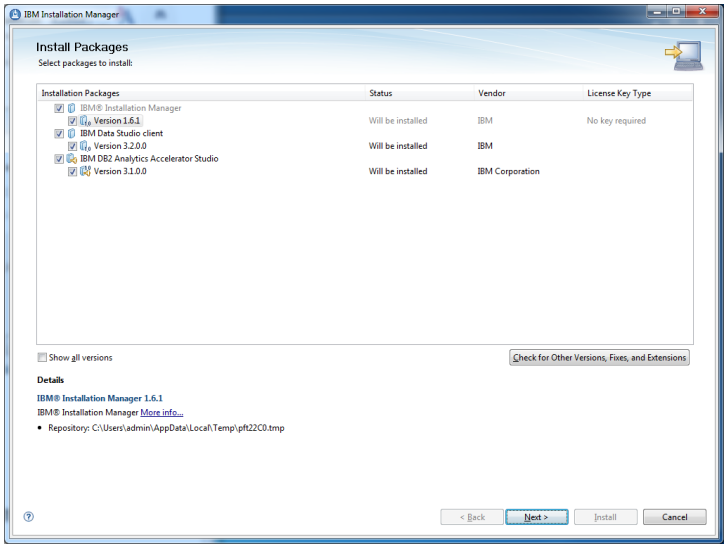
- Select "**Download IBM Data Studio**"



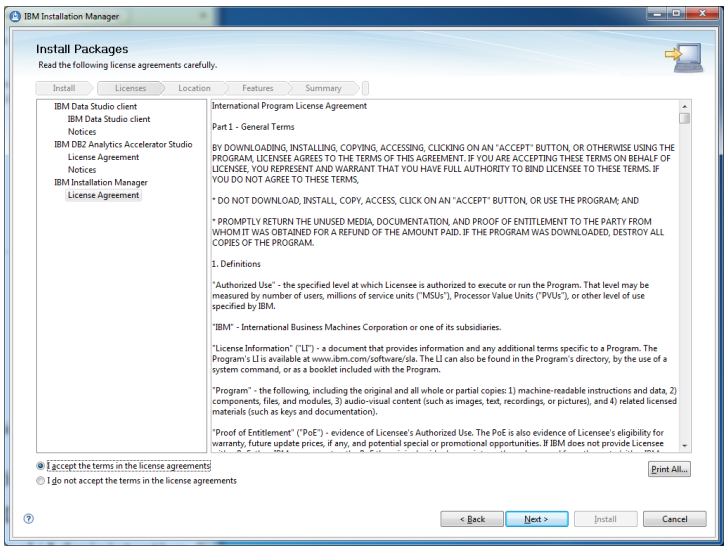
- Select the first one: **Data Studio client** and **3rd-party product extensions*** Red Hat Linux®**, SUSE Linux**, Windows™

OR

- Start the installer shipped with the Prerequisites.zip file.
    - Open folder **"**Prerequisites\IBM Data Studio",
    - Start **IBMIM_win32.exe** as **admin**
- Password from the IBM Account is required
- The IBM Installation Manager
- Select all packages and click next



- Accept the license agreements


IBM Installation Manager
Install Packages
Read the following license agreements carefully.
Install
Licenses
Location
Features
Summary
IBM Data Studio client
IBM Data Studio client
Notices
IBM DB2 Analytics Accelerator Studio
License Agreement
Notices
IBM Installation Manager
License Agreement
International Program License Agreement
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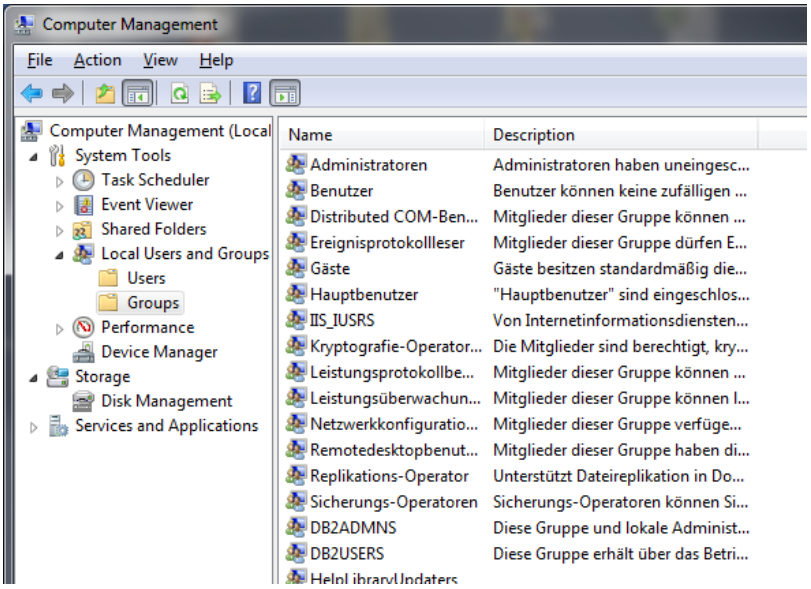
Print All...
< Back
Next >
Install
Cancel

- Specify directories for (default is ok)
    - Shared Resources
    - Installation Manager
- Specify the directory for the IBM Data Studio (default is ok)
- Select a language

- Choose configuration of the help system (Access help from the Web)
- Start to install

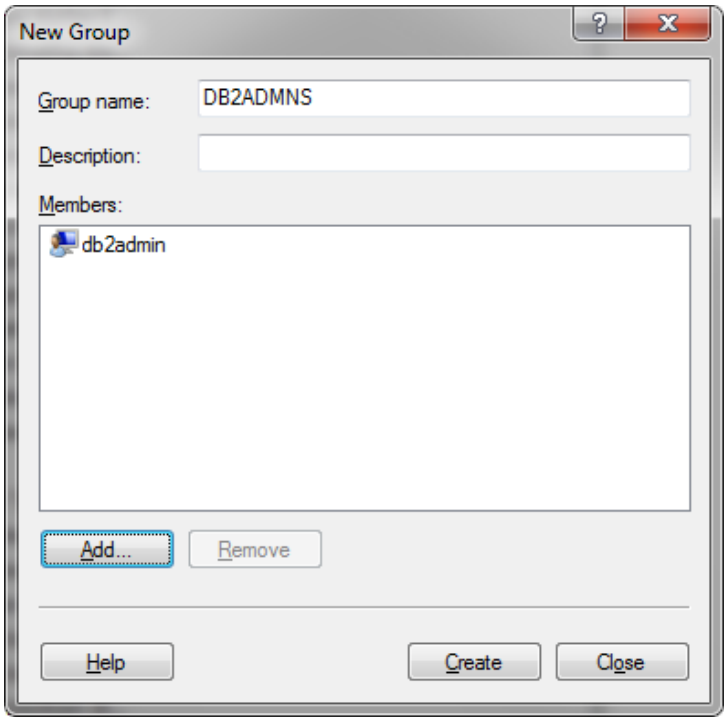
After the installation of DB2 and IBM Data Studio you need to check if the database groups (DB2ADMNS and DB2USERS) are registered:

- Control Panel/Administrative Tools/Computer Management / Local Users and Groups



Db2 Groups

- If not you need to create these groups
  - Right click on groups and select new group
  - First Group “DB2ADMNS” and add the db2admin to this group and select create



Create DB2ADMNS group

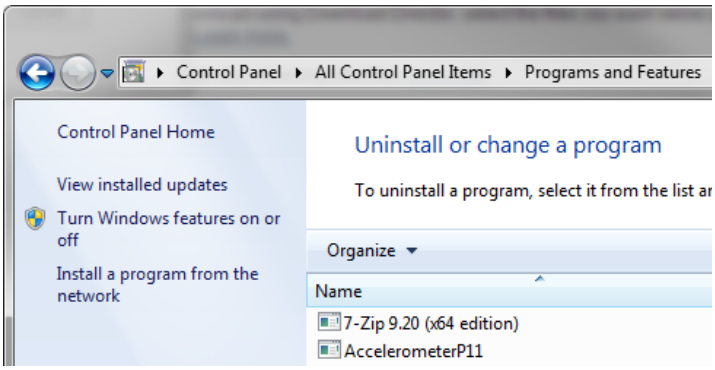
- Second Group “DB2Users”

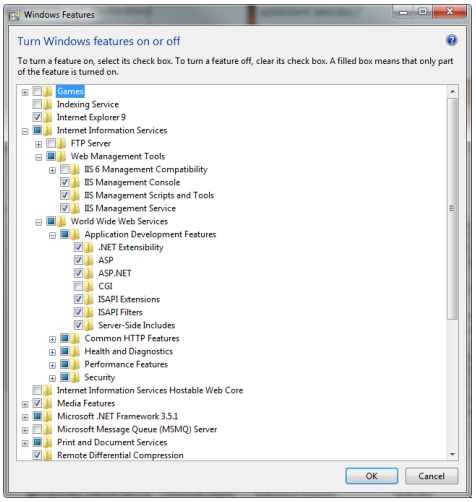
3. Setup Internet Information Service (IIS)

IIS is needed to host a website on the server. If your IIS is already activated and .NET framework is registered move on to section 4. If you don't know if your IIS is activated or if .NET is registered, please follow the steps below.

3.1. Active IIS7

- Open Control Panel/Programs and Features,
- On the left side click the "Turn Windows features on/off" link.


Control Panel ▸ All Control Panel Items ▸ Programs and Features
Control Panel Home
View installed updates
Turn Windows features on or off
Install a program from the network
Uninstall or change a program
To uninstall a program, select it from the list ar
Organize
Name
7-Zip 9.20 (x64 edition)
AccelerometerP11



- First select "Internet Information Service"(IIS) and open this node
- Open "Web Management Tools " and select/tick:
    - IIS Management Console
    - IIS Management Scripts and Tools
    - IIS Management Service
- Below IIS open "World Wide Web Services" / "Application Development Features" and select/tick:
    - .Net Extensibility
    - Asp
    - Asp .NET
- Click "OK" Button

3.2. Register .Net Framework 4.0 in IIS

- open cmd as administrator and go to folder:
    - %windir%\Microsoft.NET\Framework64\v4.0.30319\

  or
    - %windir%\Microsoft.NET\Framework\v4.0.30319\
- type here: aspnet_regiis.exeir

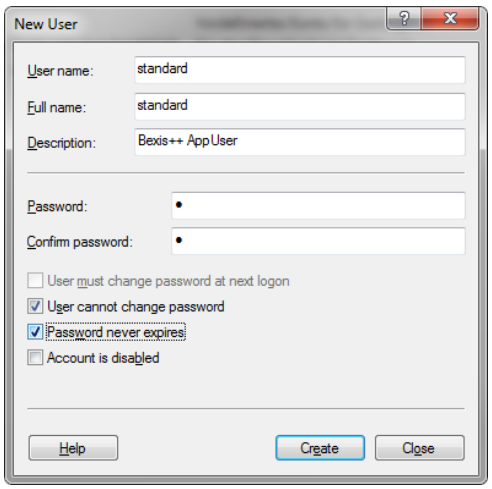
4. Deploy BExIS web application

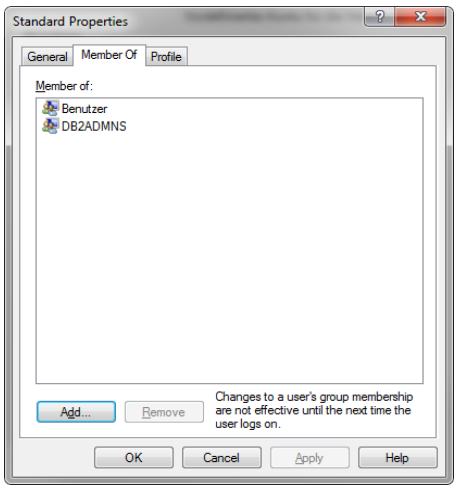
4.1. Configure server components

Perhaps some of the following configuration settings are already in place. But please check them out.

4.1.1. Create application user

- Open Control Panel\Administrative**Computer Management**
- Select Local Users and Groups
- Select Users and right click it
- Open "**New User…**"
    - Add a user called „standard"
    - Specify a password for your user
    - Click "Create"





- The user must be a member of the group DB2ADMNS:
    - Right click on standard user and open properties
    - Select the "**Member Of**" tab
    - Click "Add..", Click "Advanced…", Click "Find Now"
    - Select "DB2ADMNS" Group and click "OK"

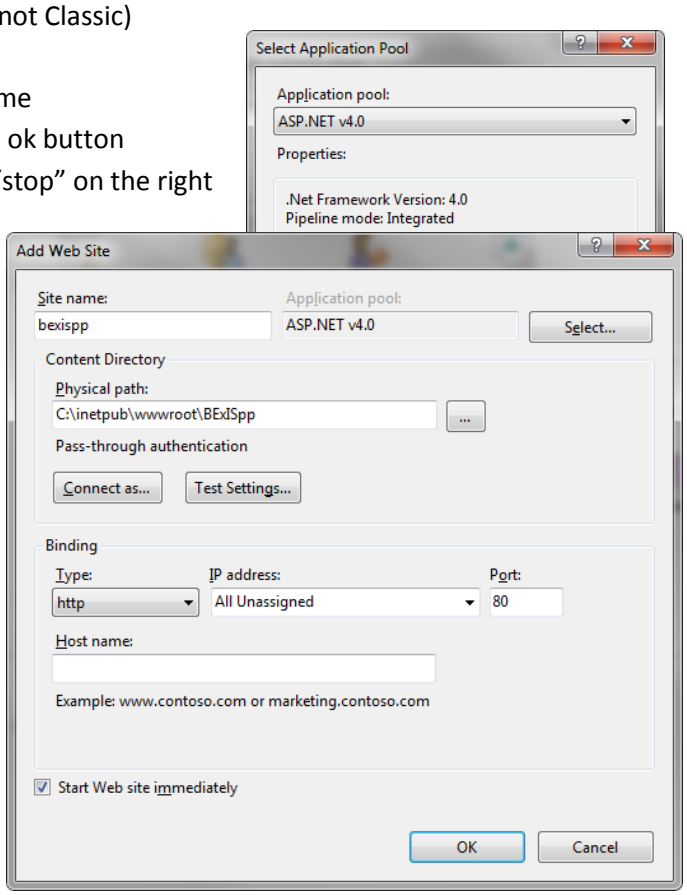
4.1.2. Configure IIS

- Configure application pool:
    - Open IIS (Control Panel/Administrative Tools)
    - Select **Application Pools** and right click in "**ASP .NET v4.0**" and select "**Set Application Pool Defaults…**"
    - Change "**General-Enable 32-Bit Applications**" to "True"
    - Change "**Process Model – Identity**" to "NetworkService"

4.1.3. Create Website

- Open IIS (Control Panel / Administrative Tools)
- Stop Default Website (Click it and choose "stop" on the right side)

- Create a new Website (right click on sites and choose Add Web Site)
- Select Application pool ASP .NET v4.0 (not Classic)
- Select physical path: C:\inetpub\wwwroot\Your_Websitename
- Confirm your selections by pressing the ok button
- Stop your website (Click it and choose “stop” on the right side)

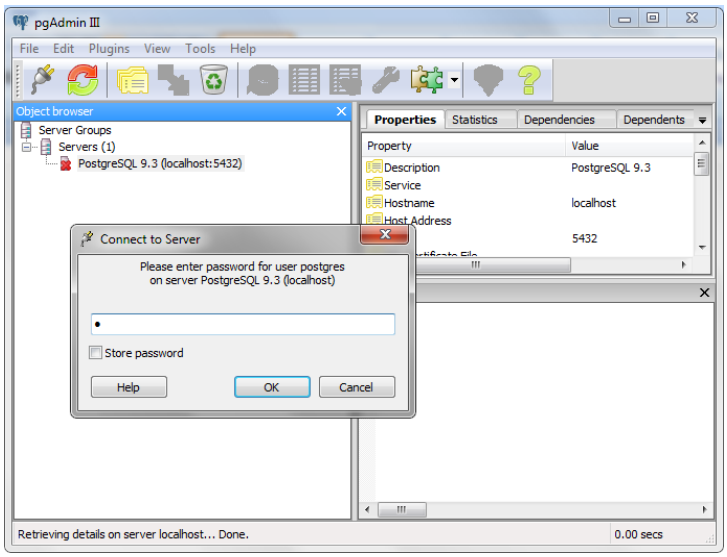


4.1.4. Create empty database

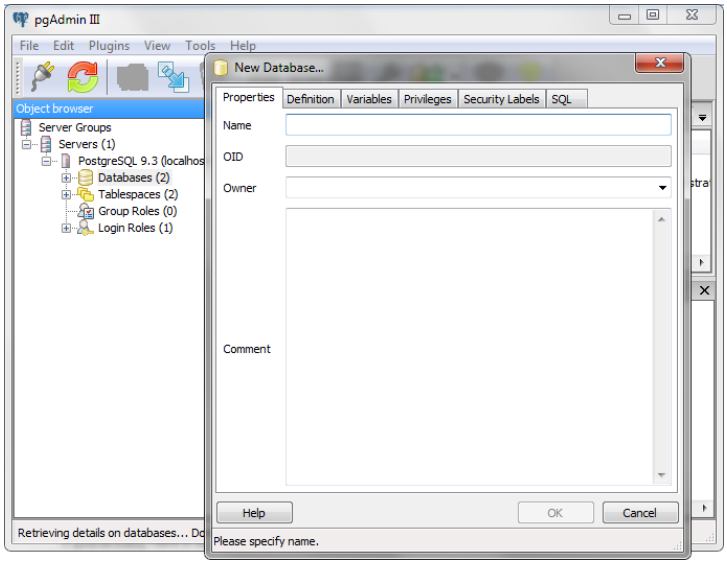
Depending on which database system is installed on your computer and you prefer to use, PostgreSQL or IBM DB2, you need to create an empty database before you are able to restore one of the two databases provided with the BExIS installation package.

4.1.4.1. Create empty database on PostgreSQL

Open pgAdmin. Double click on the “PostgreSQL 9.3 (localhost: 5432)”. A popup window will open where you need to enter the password for user ‘postgres’. Please enter “1” as the password you defined when you installed PostgreSQL.



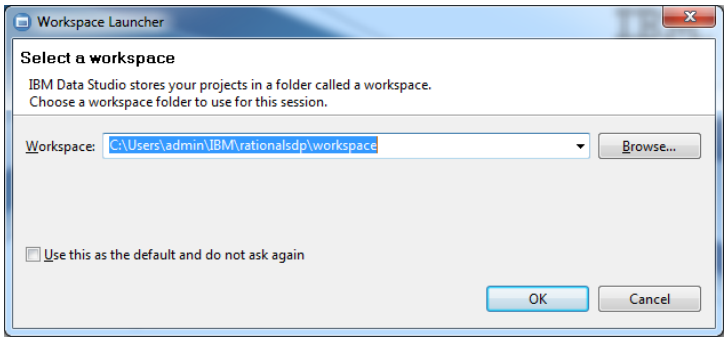
Then in the Object browser section, Right click on “Databases” node and create a new database. Enter “BExIS” as a database name.



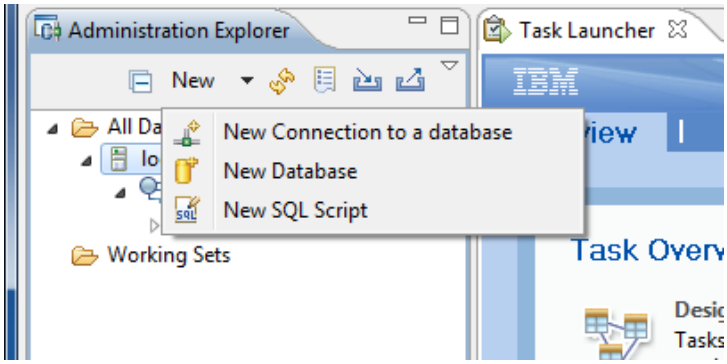
4.1.4.2. Create empty database on DB2

If you already have a database from a previous release you can skip this step.

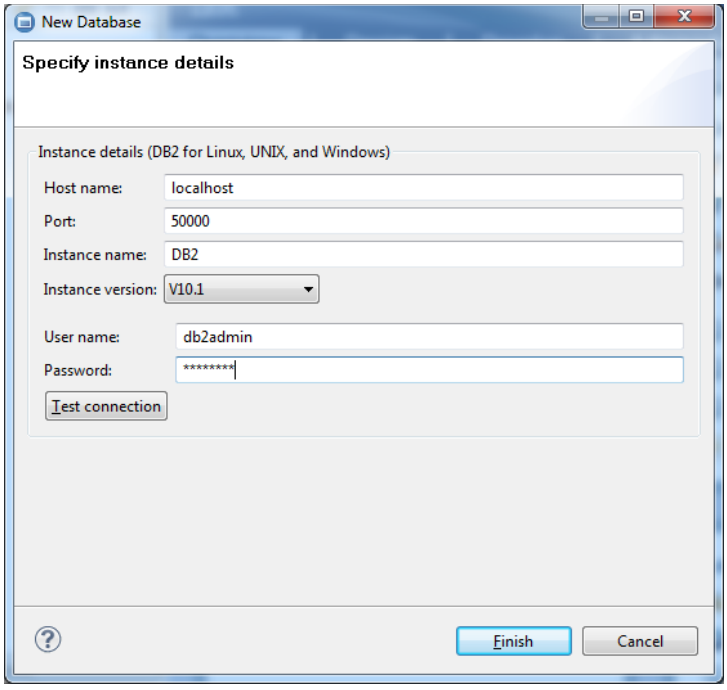
- Open IBM Data Studio as admin
- On first startup IBM Data Studio will ask for a workspace, use the selected one

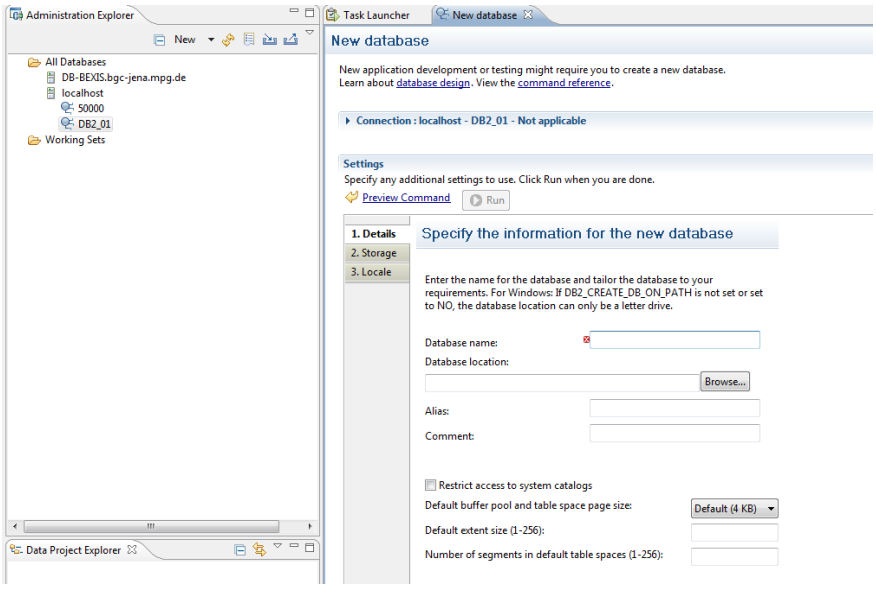

Workspace Launcher
Select a workspace
IBM Data Studio stores your projects in a folder called a workspace.
Choose a workspace folder to use for this session.
Workspace:
C:\Users\admin\IBM\rationalsdp\workspace
Browse...
Use this as the default and do not ask again
OK
Cancel

- On the left side you find all databases
- Click the dropdown button “New” in the Administration Explorer panel
- Select “New Database”

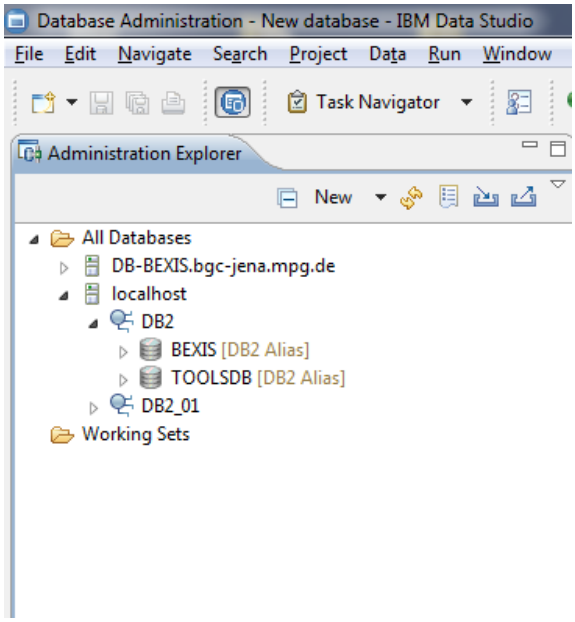


- Now connect to your instance
- Default Values
  - **Host Name:** **localhost**
  - **Port:** **50000**
  - **Instance:** **DB2**
- Choose Version 10.1
- Add db2admin with password and test connection




Administration Explorer
New
All Databases
DB-BEXIS.bgc-jena.mpg.de
localhost
50000
DB2_01
Working Sets
Data Project Explorer
Task Launcher
New database
New database
New application development or testing might require you to create a new database.
Learn about database design. View the command reference.
Connection : localhost - DB2_01 - Not applicable
Settings
Specify any additional settings to use. Click Run when you are done.
Preview Command
Run
1. Details
2. Storage
3. Locale
Specify the information for the new database
Enter the name for the database and tailor the database to your requirements. For Windows: If DB2_CREATE_DB_ON_PATH is not set or set to NO, the database location can only be a letter drive.
Database name:
Database location:
Browse...
Alias:
Comment:
Restrict access to system catalogs
Default buffer pool and table space page size:
Default (4 KB)
Default extent size (1-256):
Number of segments in default table spaces (1-256):

- Choose a database name (e.g. BExIS) and select “Run”
- Enter your db2admin password again
- After successful creation you will see the new database under your Instance in the left side



4.2. Install BExIS package

4.2.1. Deploy Website (new installation)

- Copy all files from the application folder (Site) of your unzipped BExIS_260_full package folder to C:\inetpub\wwwroot\Your_Websitename
- Copy the whole workspace folder (Workspace) from your unzipped BExIS_260_full package folder to C:\inetpub\wwwroot
- open configuration file C:\inetpub\wwwroot\Your_Websitename\Web.config with a text editor:
    - check (and adapt) database name in section connection strings
    - set “CreateDatabase” to “true“ in section appSettings

ATTENTION!! If you want to use an existing database with data inside set "CreateDatabase" to "false" otherwise the database will be cleared

  - check (and adapt) workspace path in section appSettings
  - check (and adapt) Data path in section appSettings
- The IIS_IUSRS user need modify permissions to the same folders and files.
  - **BExISppTemplate_Clean.xlsm** under Workspace path\Modules\RPM\Template\
  - **Lucene** folder under Workspace path \Modules\DDM\
  - **Data** folder under Data path

~~4.2.2. Deploy Website (patch existing installation)~~

- ~~Copy all files from the application folder (Site) of your unzipped BExIS 2.5.1 patch package folder to C:\inetpub\wwwroot\Your_Websitename (you need to overwrite existing files)~~
- ~~The patch will neither overwrite settings in the web.config file nor the database~~

NOT applicable to Release 2.6.0

4.2.3. Start Website

- Open the IIS and select your Website
- Start your website (Click it and choose "Start" on the right side)
- Open Browser and enter: localhost
- open configuration file C:\inetpub\wwwroot\Your_Websitename\Web.config with a text editor
- set "CreateDatabase" to "false" in section appSettings

5. Errors

ERROR [08004][IBM] SQL30061

- Check if database exist. If not create this database
- If you run more than one instances of db2, you need to add another port number to the server name in the connection string
  - Localhost:50001

ERROR [08001][IBM] SQL30081n

- Please check if the Database Instance is running.
- If not, start the instance

ERROR HTTP-ERROR 403.14

- .Net is not registered for IIS 7
- Open the BExIS 2.6.1 folder and start **aspnet_regiis.exe** as admin

ERROR HTTP- ERROR 404.2

- change apppool in II7 to integrated (asp.net 4)

ERROR SQL1159

- Initialization error with DB2 .NET Data Provider, reason code 10...
  for user 'IIS APPPOOL\ASP.NET v4.0'
- has something to do with App pool identity. Set the app pool identity as "Network service", this group has already read access to C:\Program Files\IBM\SQLLIB\BIN
- Open **IIS**
  Select **Application Pools** and right click in "**ASP .NET v4.0**" and select "**Set Application Pool Defaults…**"
- Process Model – Identity change to "**NetworkService**"